

**TRANSMITTAL LETTER TO THE UNITED STATES  
 DESIGNATED/ELECTED OFFICE (DO/EO/US)  
 CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO.  
 (If known, see 37 CFR 1.5)

**10/506454**

INTERNATIONAL APPLICATION NO.  
**PCT/US03/06664**

INTERNATIONAL FILING DATE  
**04 MARCH 2003**

PRIORITY DATE CLAIMED  
**04 MARCH 2002**

TITLE OF INVENTION  
**THE COMPLETE GENOME AND PROTEIN SEQUENCE OF THE HYPERTHERMOPHILE METHANOPYRUS  
 KANDLERI AV19 AND MONOPHYLY OF ARCHAEL METHANOGENS AND METHODS OF USE THEREOF**

APPLICANT(S) FOR DO/EO/US  
**Alexei I. SLESAREV, Andrey PAVLOV, Nadezhda PAVLOVA and Sergei KOZYAVKIN**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (unsigned).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98, Form SB/08A and copy of reference.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: **Check for \$1,872.00, Return Card and Certificate of Mailing.**

17. ☒ The following fees are submitted**BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5))**

Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... \$

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$770.00

International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$

International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4).. \$

**ENTER APPROPRIATE FEE AMOUNT =****\$770.00**

Surcharge of **\$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

**\$130.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	31 - 20 =	11	x \$18.00	<b>\$198.00</b>	
Independent Claims	12 - 3 =	9	x \$86.00	<b>\$774.00</b>	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$0.00	\$	

**TOTAL OF ABOVE CALCULATIONS =****\$1,872.00**

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

**SUBTOTAL =****\$1,872.00**

Processing fee of **\$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

**TOTAL NATIONAL FEE =****\$1,872.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) **\$40.00** per property +

\$

**TOTAL FEES ENCLOSED =****\$1,872.00**

**Amount to be:  
refunded:**

\$

**Charged:**

\$

- a. ☒ A check in the amount of **\$1,872.00** to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 50-1123 in the amount of \$\_\_\_\_\_ to cover the above fees.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1123.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

Carol W. Burton, Esq.  
Hogan & Hartson, L.L.P.  
One Tabor Center  
Suite 1500 1200 Seventeenth Street  
Denver, Colorado 80202

SIGNATURE

Carol W. Burton  
NAME

Reg. No. 35,465  
REGISTRATION NUMBER

Attorney Docket No. FID001 US  
Client Matter No. 90558.0001.001

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.

Inventors: Alexei I. SLESAREV, et al.

Filed: August 31, 2004

TC/A.U.

Examiner:

Docket No. FID001 US

Customer No. 25235

Confirmation No.

Title: THE COMPLETE GENOME AND  
PROTEIN SEQUENCE OF THE  
HYPERTHERMOPHILE  
METHANOPYRUS KANDLERI AV19  
AND MONOPHYLY OF ARCHAEAL  
METHANOGENS AND METHODS  
OF USE THEREOFCERTIFICATE OF MAILING BY EXPRESS MAILMail Stop PCT  
Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

The undersigned hereby certifies that the following documents:

1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
2. Declaration for Utility Patent Application (unsigned);
3. CD-ROM and Statement Regarding Sequence Listing Under 37 C.F.R. § 1.821(f);
4. Check for \$1,872.00;
5. Return Card, and

this Certificate of Mailing relating to the above application, were deposited as "Express Mail," Mailing Label No. EL533455958US with the U.S. Postal Service, addressed to: Mail Stop PCT, Commissioner for Patents: P.O. Box 1450, Alexandria, VA 22313-1450, on August 31, 2004.

August 31, 2004

\_\_\_\_\_  
Mailer

August 31, 2004

\_\_\_\_\_  
Carol W. Burton, Reg. No. 35,465  
Hogan & Hartson L.L.P.  
1200 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
(303) 454-2454 (telephone)  
(303) 899-7333 (facsimile)